MPEG audio layer-1 frame format

(Header)	(Alloc)	(Scalefactors)	(Samples)	(ANC)
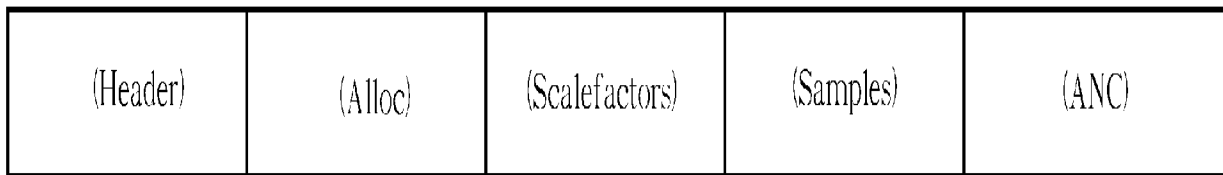
MPEG audio layer-2 frame format

(Header)	(Alloc)	(SCFSI)	(Scalefactors)	(Samples)	(ANC)
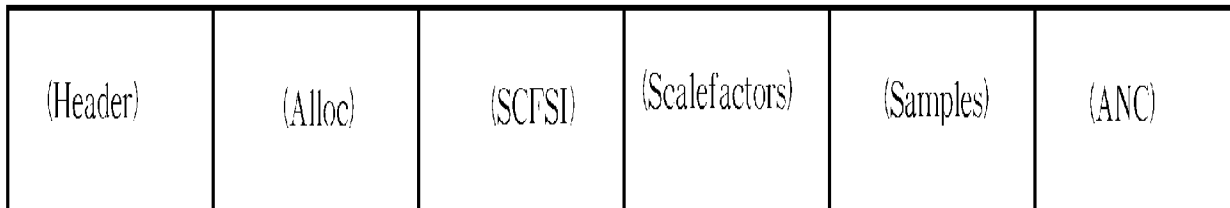
MPEG audio layer-3 frame format

(Header)	(Sideinfo)	(Scalefac,Samples)	(ANC)	(Succeeding frame's data)

Fig. 1 Related Art

MPEG Header

Column	Syncword	ID	layer	Protection bit	bit-rate index	Sampling-rate index	Padding bit
Bit number	12	1	2	1	4	2	1
Column	Private_bit	Mode	Mode extension	Copyright	Original	Emphasis	
Bit number	1	2	2	1	1	2	

Fig. 2 Related Art

Receive a bit-rate index and a
sampling-rate index in a current
frame of the digital encoded signals
— 310

Utilize a lookup table to determine a
search region corresponding to the
bit-rate index and the sampling-rate index
— 320

Utilize a backward-searching way to determine
the syncword of the next frame
— 330
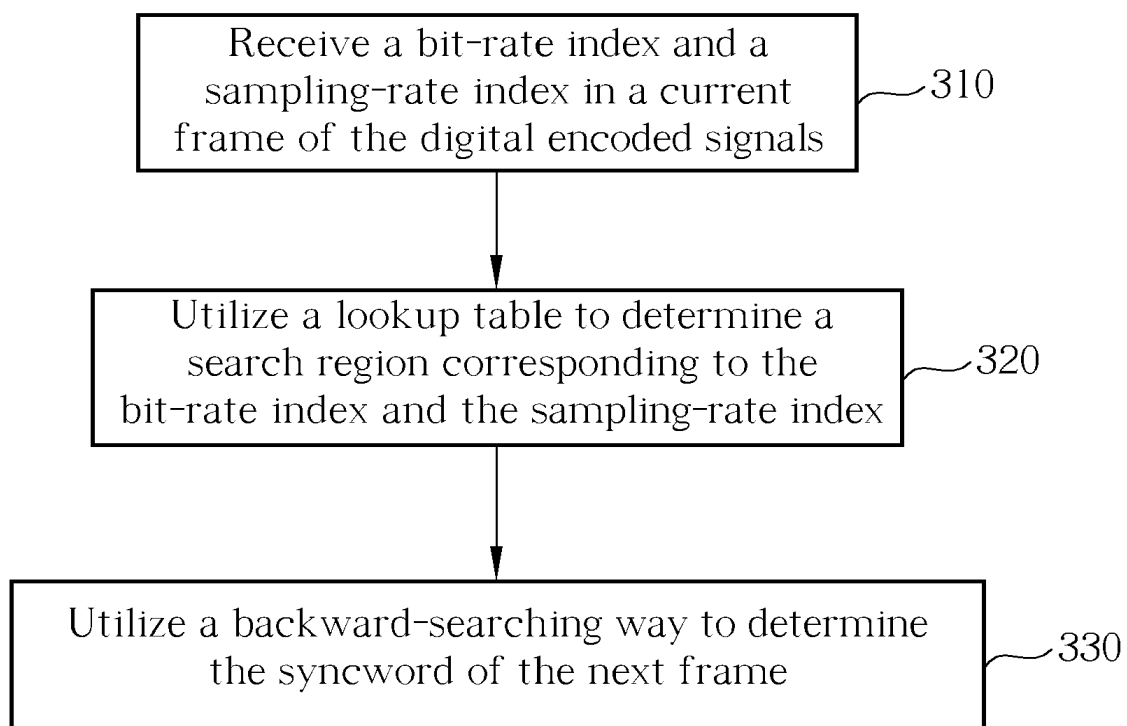
Fig. 3

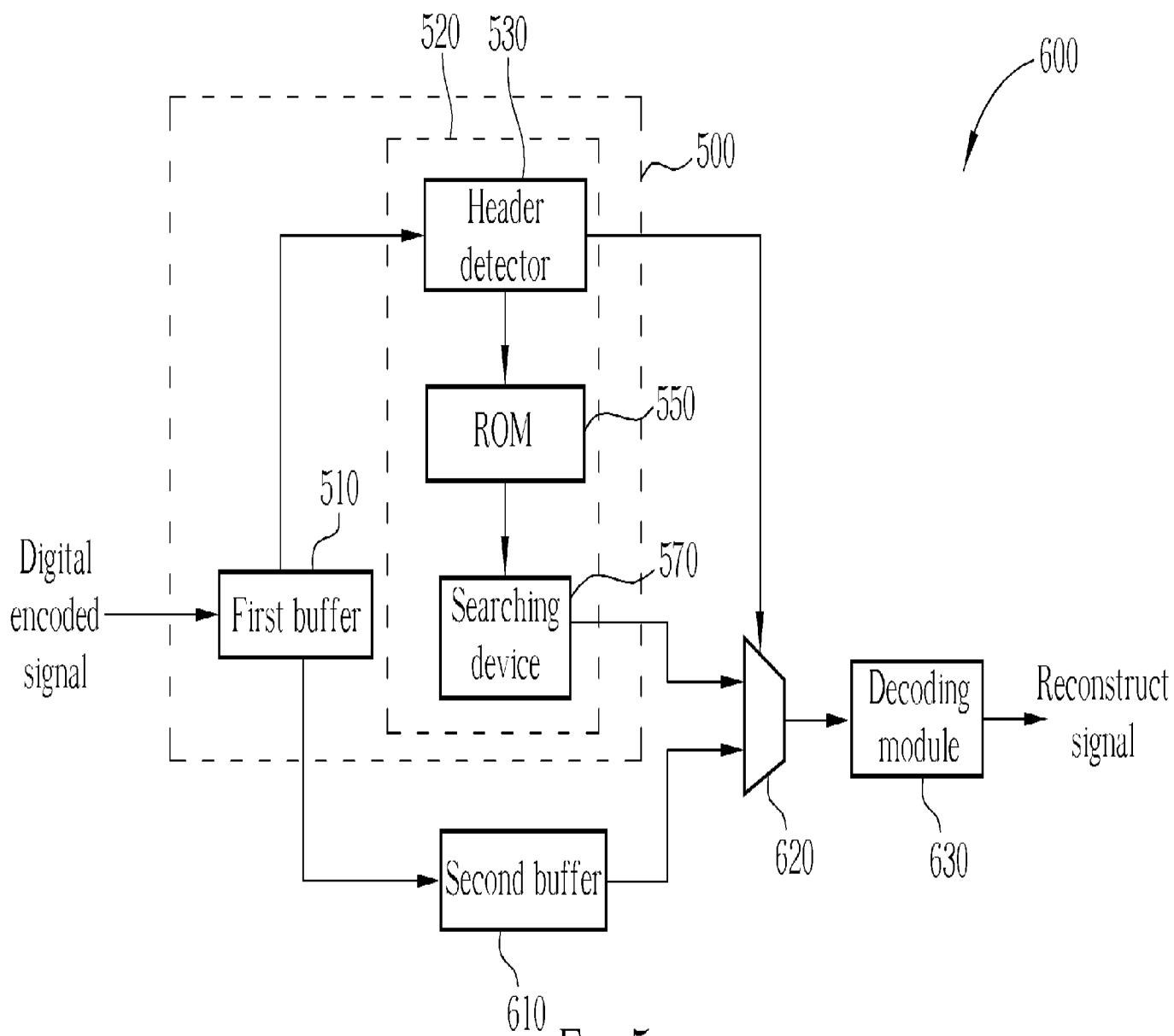| Bit-rate index	Sampling-rate index		
	0(44.1 kHz)	1(48 kHz)	2(32 kHz)
1 (32 kbps)	Starting position:106 Ending position:104	Starting position:97 Ending position:96	Starting position:145 Ending position:144
2 (40 kbps)	Starting position:132 Ending position:130	Starting position:121 Ending position:120	Starting position:181 Ending position:180
3 (48 kbps)	Starting position:158 Ending position:156	Starting position:145 Ending position:144	Starting position:217 Ending position:216
4 (56 kbps)	Starting position:184 Ending position:182	Starting position:169 Ending position:168	Starting position:253 Ending position:252
5 (64 kbps)	Starting position:210 Ending position:208	Starting position:193 Ending position:192	Starting position:289 Ending position:288
6 (80 kbps)	Starting position:263 Ending position:261	Starting position:241 Ending position:240	Starting position:361 Ending position:360
7 (96 kbps)	Starting position:315 Ending position:313	Starting position:289 Ending position:288	Starting position:433 Ending position:432
8 (112 kbps)	Starting position:367 Ending position:365	Starting position:337 Ending position:336	Starting position:505 Ending position:504
9 (128 kbps)	Starting position:419 Ending position:417	Starting position:385 Ending position:384	Starting position:577 Ending position:576
10 (160 kbps)	Starting position:524 Ending position:522	Starting position:481 Ending position:480	Starting position:721 Ending position:720
11 (192 kbps)	Starting position:628 Ending position:626	Starting position:577 Ending position:576	Starting position:865 Ending position:864
12 (224 kbps)	Starting position:733 Ending position:731	Starting position:673 Ending position:672	Starting position:1009 Ending position:1008
13 (256 kbps)	Starting position:837 Ending position:835	Starting position:769 Ending position:768	Starting position:1153 Ending position:1152
14 (320 kbps)	Starting position:1046 Ending position:1044	Starting position:961 Ending position:960	Starting position:1441 Ending position:1440

Fig. 4

Fig. 5